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From the INTERNATIONAL SEARCHING AUTHORITY

LESTER J. VINCENT BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040

PCT

BLAKELY, SCHOLOFF, TAYLOR & ZAFMAN

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION RECEIVED

(PCT Rule 44.1)

	(day month year)
Applicant's or agent's file reference STANGER TANK SAZERVA 8433P008PCT S. NAVVA, E.M.T., E. M.T. SEAT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No PCT/US 08/78025	International filing date (day month year) 26 September 2008 (26.09.2008)
Applicant DYNAMIC METHOD ENTERPRISES LIMITED	D

	opticam	DYNAMI	C METHOD ENTERPRISES LIMITED
1	$\boxtimes$	The applica Authority I	ant is hereby notified that the international search report and the written opinion of the International Searching have been established and are transmitted herewith.
		Filing of a	mendments and statement under Article 19: ant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):
		When?	The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.
		Where?	Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35
		For mor	e detailed instructions, see the notes on the accompanying sheet
2		The applica	ant is hereby notified that no international search report will be established and that the declaration under 2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3		With regar	rd to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		L the p	protest together with the decision thereon has been transmitted to the International Bureau together with the icant's request to forward the texts of both the protest and the decision thereon to the designated Offices
		no d	ecision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4	Rem	inders	
	appli	cation, or of t	expiration of 18 months from the priority date, the international application will be jublished by the aut if the applicant wishes to avoid or postopone uphilication, a notice of withdrawal of the international the priority claim, must reach the International Bureau as provided in Rules 90bin.1 and 90bin.3, respectively, too of the technical preparations for international publication.
	interr the pu	ational prelir	submit comments on an informal bass on the written opinion of the International Searching Authority to the authority to the submit of the property of such comments to all designated Offices unless an minary examination report has been or is to be established. These comments would also be made available to before the expraints on 630 months from the priority to
	date (	in some Offic or entry into t	from the priority date, but only in respect of some designated Offices, a demand for international preliminary be filed if the applicant whests to prosphone the entiry into the national phase until 30 months from the priority see even later!) otherwise, the applicant must, within 20 months from the priority date, perform the preciribed the national phase before those designated Offices.
	in res	pect of other	designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19
	Can th	a Annas ta E	PCT4D 201 LC LL L

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Name and mailing address of the ISA/US Authorized officer Mail Stop PCT, Attn. ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Lee W. Young PCT Holpdask 571-272-4300 PCT GSP 571-272-7774 Facsimile No 571-273-3201

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet) 10007

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Docketed by: <u>か</u> ナ	//
Reviewed by:	
Sent Out by SV FF	on: 121108
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From the INTERNATIONAL SEARCHING AUTHORITY

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To: LESTER J. VINCENT BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN	РСТ	
LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION	
	(PCT Rule 44.1)	
	Date of mailing (day month year) 0 8 DEC 2008	
Applicant's or agent's file reference		
8433P008PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US 08/78025	International filing date (day month year) 26 September 2008 (26.09.2008	
Applicant DYNAMIC METHOD ENTERPRISES LIMIT		
The applicant is hereby notified that the international     Authority have been established and are transmitted h	search report and the written opinion of the International Searching	
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the	10.	
When? The time limit for filing such amendm international search report.	ents is normally two months from the date of transmittal of the	
Where? Directly to the International Bureau of W 1211 Geneva 20, Switzerland, Facsimile	IPO, 34 chemin des Colombettes	
For more detailed instructions, see the notes on the	No.: +41 22 740 14 35 e accompanying sheet.	
2 The applicant is hereby notified that no international Article 17(2)(a) to that effect and the written opinion of the control of the con	I search report will be established and that the declaration under of the International Searching Authority are transmitted herewith.	
3. With regard to the protest against payment of (an) a	dditional fee(s) under Rule 40.2, the applicant is notified that:	
apprenant a request to forward the texts of both	has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.	
	he applicant will be notified as soon as a decision is made.	
application, or of the priority claim, must reach the Internation before the completion of the technical preparations for internations for international preparations for internations for international preparations for international preparation	ity date, the international application will be published by the costpone publication, a notice of withdrawal of the international anal Bureau as provided in Rules 90bir 1 and 90bir 3, respectively, ational publication.	
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international perlamnary examination report has been or is to be established. These comments would also be made available to the public but not before the explantion of 30 months from the priority data.		
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled if the applicant wishes to exponent the entiry on the national phase until 30 months from the priority date in some Offices even later), otherwise, the applicant must, within 20 months from the priority date for more priority dates before those designated Offices.		
In respect of other designated Offices, the time limit of 30 m months	nonths (or later) will apply even if no demand is filed within 19	
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet s	applicable time limits, Office by Office, see the PCT Applicant 3 ite.	
Name and mailing address of the ISA/US	Authorized officer	
Ani Stop PCT, Attn: ISAUS Commissioner for Patients Lee W. Young		

 Commissioner for Patients
 PCT Helpowar \$71-272-400

 P O Box 1450, Alexandria, Virginia 22313-1450
 PCT Helpowar \$71-272-400

 Facsimiri (No. 751-273-3201)
 PCT OSP \$71-272-7774

 Form PCT/ISA/220 (January 2004)
 PCT OSP \$71-272-7774

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 8433P008PCT	FOR FURTHER ACTION 25 W	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
International application No	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 08/78025	26 September 2008 (26.09.2008)	26 September 2008 (26.09.2008)
Applicant DYNAMIC METHOD ENTERPRISES LIMI	TEO	
This international search report has been according to Article 18. A copy is being	n prepared by this International Searching transmitted to the International Bureau.	Authority and is transmitted to the applicant
This international search report consists  It is also accompanied by a	of a total of <u>3</u> sheets. copy of each prior art document cited in th	s report.
1. Basis of the report		
a. With regard to the language, the	international search was carried out on the	basis of
the international appl	ication in the language in which it was filed	
a translation of the in a translation furnishe	ternational application into d for the purposes of international search (R	which is the language of ules 12.3(a) and 23.1(b)).
authorized by or nonned to	this Authority under Rule 91 (Rule 43.6bis	
c. With regard to any nucleoti	de and/or amino acid sequence disclosed	n the international application, see Box No. 1.
2. Certain claims were found	unsearchable (see Box No. 11).	
3. Unity of invention is lackly	ng (see Box No. III).	
4. With regard to the title,		
the text is approved as subm		
the text has been established	by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as submi	tted by the applicant.	1
the text has been established, may, within one month from	according to Rule 38.2(b), by this Authorit the date of mailing of this international search	y as it appears in Box No. IV. The applicant th report, submit comments to this Authority
<ol><li>With regard to the drawings,</li></ol>		
a. the figure of the drawings to be pu	ablished with the abstract is Figure No 2A	
as suggested by the app		
	iority, because the applicant failed to sugges	
	ority, because this figure better characterize	s the invention
b none of the figures is to be pu	blished with the abstract	

Form PCT/ISA/210 (first sheet) (April 2007)

## INTERNATIONAL SEARCH REPORT

	International application No.
1	PCT/US 08/78025
_	

	101103 08/78025
Box No. II Observations where certain claims were found unsearchable (Continu	uation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under   Claims Nos.  Claims Nos.  because they relate to subject matter not required to be searched by this Author	
Claims No.     No sease they relate to parts of the international application that do not comply extent that no meaningful international search can be carried out, specifically:	with the prescribed requirements to such an
Claims Nos.: 4-9, 18-20, 28-27, and 31 because they are dependent claims and are not drafted in accordance with the se  Box No. III. Observations where explored the second	
Box No. III Observations where unity of invention is lacking (Continuation of item	3 of first sheet)
As all required additional search fees were timely paid by the applicant, this inter- claims.	national search report covers all searchable
As all searchable claims could be searched without effort justifying additional fee additional fees.	es, this Authority did not invite payment of
As only some of the required additional search fees were timely paid by the application only those claims for which fees were paid, specifically claims Nos	cant, this international search report covers
No required additional search fees were timely paid by the applicant. Conseq restricted to the invention first mentioned in the claims, it is covered by claims N	uently, this international search report is os.;
emark on Protest The additional scarch fees were accompanied by the app payment of a protest fee. The additional search fees were accompanied by the app fee was not paid within the time limit specified in the in No protest accompanied the payment of additional search.	olicant's protest but the applicable protest

Form PCT/ISA/210 (continuation of first sheet (2)) (April 2007)

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US 08/78025

A. CLASSIFICATION OF SUBJECT MATTEI IPC(8) - H04J 14/00 (2008.04) USPC - 398/45 According to International Patent Classification (IPC) o			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) USPC, 38645			
Documentation searched other than minimum documentation USPC: 398/25, 45, 48, 57; 370/250, 252, 360	in to the extent that such documents are included in the	fields searched	
Electronic data base consulted during the international searc PubWEST(USPT,PGP8,EPAB,JPAB); DialogPRO(Engine Search Terms: wavelength switch module, WSM, encoder venfying optical connectivity etc.			
C DOCUMENTS CONSIDERED TO BE RELEVAN	Г		
Category* Citation of document, with indication,	where appropriate, of the relevant passages	Relevant to claim No	
X US 7,174,066 B1 (Look) 6 February 2007 (06 33; col. 3, in 28-44, in 50-60, in 50-60; col. 4, in 1-10, in 15-20; col. 8, in 1-10.	02.2007), entire document especially col. 2, in 22- in 25-30, in 45-47; col. 6, in 1-10, in 54-61; col. 7,	1-3, 10-14, 21, 28-30, and 32-33	
		15-17 and 22-24	
Y US 5,495,358 A (Bartig et al.) 27 February 15 in 55-50.	96 (27.02.1996), entire document especially col. 1.	15-17 and 22-24	
Further documents are listed in the continuation of B	lox C.		
Special categories of cited documents:  A couranted facing the general state of the an which is not considered to be of particular relevant published after the intermational filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the investion.  To active remotive one consideration of the intermation of the principle or theory underlying the investion.			
earlier application or patent but published on or after the inter filling date  document which may throw doubts on program clauses or	mational "X" document of particular relevance, the ele- considered novel or cannot be considered	simed invention cannot be	
crited to establish the publication date of another citation or other   "y" document of particular relevance, the claimed invention cannot be  considered to involve an inventior step when the document (so   "document referring to an oral disclosure, use, exhibition or other   "o" document referring to an oral disclosure, use, exhibition or other   "on the publication of particular relevance, the claimed invention cannot be  considered to involve an inventior step when the   "output for the publication of the   "on the publication of another citation or   "one of   "or not   "or n			
document published prior to the international filing date but is the priority date claimed		π	
Date of the actual completion of the international search 3 November 2008 (13.11.2008)  Date of mailing of the international search report  0 8 DEC 2006			
ime and mailing address of the ISA/US if Stop PCT, Attn: ISA/US, Commissioner for Patents	Authorized officer		
ac Study PCT, Allin, 134/05, Commissioner for Patients Lee W Young O Box 1450, Alixandria, Virginia 22313-1450 PCT Holpides 571-273-3201 PCT Holpides 571-272-7776			

Form PCT/ISA/210 (second sheet) (April 2007)

From the INTERNATIONAL SEARCHING A	THORITY		
To LESTER J. VINCENT BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN		PCT	
LLP 1279 OAKMEAD PARKW. SUNNYVALE, CA 94085-		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	0 8 DEC 2008
Applicant's or agent's file reference		FOR FURTHER	
8433P008PCT		l and and	See paragraph 2 below
International application No.	International filing date	(day month year)	
PCT/US 08/78025	26 September 2008		Priority date (day month year)
International Patent Classification (IF			26 September 2008 (26.09.2008)
USPC - 398/45	C) or both national classifical	tion and IPC	
Applicant DYNAMIC METHOD	ENTERPRISES LIMITI	ED	
This opinion contains indications     Box No. 1 Basis of the		is:	
Box No II Priority	оринов		
Box No. III Non-establ	ishment of opinion with regar	d to novelty, inventi	ve step and industrial applicability
Box No. IV Lack of un	ty of invention		
Box No. V Reasoned s citations an	atement under Rule 43bis.1(a d explanations supporting suc	)(i) with regard to no h statement	welty, inventive step or industrial applicability,
1 —	uments cited		
Box No. VII Certain defi	ects in the international applic	ation	
Box No. VIII Certain obs	ervations on the international	application	
2. FURTHER ACTION			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examinag Authority (TeRA) except that the does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66 I dutyly that written opinions of this International Seatoning Authority will not be so considerate.			
If this opinion is, as provided above	e, considered to be a written of	pinion of the IPEA,	the applicant is invited to submit to the IPEA of 3 months from the date of mailing of Form
For further options, see Form PCT	/ISA/220	orny date, whicheve	a expires rater
3 For further details, see notes to Form PCT/ISA/220.			
Name and mailing address of the ISA/U	S Date of completion of this	opinion	Authorized officer
Mail Stop PCT, Atta: ISA/US Commissioner for Patents			Lee W Young
P O Box 1450, Alexandria, Virginia 22313-145	13 November 2008	(13.11.2008)	
Facsimile No 571-273-3201			PCT Helpites: 571-272-4300 PCT OSD 571-272-7774

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

nternational application No	
PCT/US 08/78025	

Box No. I	Basis of this opinion	
1. With	regard to the language, this opinion has been established on the basis of	-
$\times$	the international application in the language in which it was filed.	
	a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).	
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 436ss.1(a))	
3 With establ	regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been ished on the basis of	
a_ty	pe of material	
	a sequence listing	
	table(s) related to the sequence listing	
b. fo	rmat of material	
<u> </u>	on paper	
L	in electronic form	
c. tin	ne of filing/furnishing	
	contained in the international application as filed	
	filed together with the international application in electronic form	
	furnished subsequently to this Authority for the purposes of search	
	, , , , , , , , , , , , , , , , , , , ,	
4.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or farnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
5. Additu	onal comments	
- House	And Comments.	ı
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 08/78025

Box N	o. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The quapplication	estions able hav	whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially e not been examined in respect of
	the e	intire international application
$\boxtimes$	clain	ns Nos. 4-9, 18-20, 25-27, and 31
beca	ause	
L	the s subje	aid international application, or the said claims Nos relate to the following ct matter which does not require an international search (apectly):
$\boxtimes$	are sc	sscription, claims or drawings findicate particular elements below) or said claims Nos. 540 below unclear that merumight opinion could be formed (pecify):
	Claim and th	s 4-9, 18-20, 25-27, and 31 are improper multiple dependent claims and are not drafted in accordance with the second
	the cli- by the	nms, or said claims Nos
M		ernational search report has been established for said claims Nos. 4-9, 18-20, 25-27, and 31
		ningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit.
	_	furnish a squence listing on paper complying with the standard provided for in Annex C of the Administrative formistactions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.  Graph as equence listing in electronic form complying with the standard provided for in Annex C of the Administrative
		instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable of it.  you the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under
	a mean prescrit Annex	(side 13 for (s) or (s).  mgful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the teld time limit, firming such tables in electronic form complying with the technical requirements provided for in the Administrative Instructions, and such tables were not available to the International Scarching Authority in and manner acceptable to it.
	the tabl	ies related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the all requirements provided for in Annex C-bis of the Administrative Instructions.
	See Sup	oplemental Box for further details

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applications and explanations supporting such statement			p or industrial applicability;
ıt	*		
ty (N)	Claims Claims	15-17 and 22-24 1-3, 10-14, 21, 28-30, and 32-33	YES NO
ive step (IS)	Claims Claims	None 15-17, 22-24	YES NO
rial applicability (IA)	Claims Claims	1-33 None	YES NO
	Reasoned statement are citations and explanate of the citations and explanate of the citation	Ity (N) Claims Claims tive step (IS) Claims Claims Claims Claims rail applicability (IA) Claims	to the statement supporting such statement sta

#### 2 Citations and explanations

Claims 1-3, 10-14, 21, 28-30, and 32-33 lack novelty under PCT Article 33(2) as being anticipated by US 7,174,066 B1 (Look).

As per claim 1, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising sending a first optical signal from the optical transcrieve to the WSM (cot. 3, in 50-50); checking a second optical signal received by the optical transcriever after sending the first optical signal (cot. 3, in 50-60); and determining whether the second optical signal corresponds to the first optical signal (cot. 3, in 50-60); and determining whether the second optical signal corresponds to the first optical signal (cot. 3, in 50-60).

As per dain 2, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising the optical franscaviver putting an identification into the first optical signal to send with the first optical signal to the WBM to allow a processor communically outpelled to the YBM to determine if the second optical signal corresponds to the first optical signal (oz 1, 7, 11-10).

As per claim 3, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising varying power of the first optical signal before the first optical signal exists the WSM (cal. 6, in 1-5), and measuring the second optical signal to determine whether power of the second optical signal changes in response to the varying of the power of the first optical signal (col. 6, in 54 miles).

As per calien 10, Lock discloses method and an apparatus to detect signal failure on a per wavelength basis comprising in response to an interrupt from a wavelength switch module (col. 2, in 22-33), identifying the wavelength switch module (col. 2, in 22-33), and identifying an input port of the WSM that receives a first optical signal from an optical transceiver (col. 2, in 22-33).

As per calien 11, Lock discloses method and an apparatus to detect signal failure on a per wavelength basis comprising determining whether the optical trescriver has received a second optical signal after sending the first optical signal (oil. 3, in 55-60); and identifying a wavelength designated to a charrier the art VMM corresponding to the input project oil. 3, in 55-60.

As per claim 12, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising tuning a light source of the optical transceiver to the designated wavelength if the light source is not at the designated wavelength (col. 7, in 15-20).

As per claim 13, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising sending an error message if the light source is not at the designated wavelength (col. 4, in 45-47).

As per claim 14, Look diacloses method and an apparatus to detect signal failure on a per wavelength basis comprising a wavelength switch mobile (WSM) (pcl. 3), in 28-28); an optical transceiver, detachably coupled to the WSM, to send a first optical signal to the WSM and to detect as exercised optical signal received from the WSM after ending the first optical signal (pcl. 4), a 28-36); and as et of the optical transceiver (pcl. 6), in 28-36; and set of the optical signal (pcl. 4), and a set of the optical signal in response to an aftering from each of the WSM and the optical transceiver (pcl. 6), in 28-36; i.

As per claim 21, Lock discloses method and an appearatur to detect signal failure on a per wavelength basis comprising an optical network moduling a privately of potent fleers (or it. 8 in 71m) and a feet entailure (it. 8 in 10m) and the first optical services (it. 8 in 10m) and it. 8 in 10m) and it. 8 in 10m a

As per claim 28, Look discloses method and an appearate to detect signal failure on a per valveteigh basic comprising secting a first operate signal from an optical stranscent or an interplant of a wavelength motion into model water. When the first operate signal from an optical stranscent mot less depended in the life of the stranscent of the VSM vs. a channel within the VSM (co.), in 65-55; causing a processor to look vig a wavelength set to the channel (co. 7, in 1-10), and channel (co. 7, in 1-10) an

(See Supplemental Box)	

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 08/78025

Supplemental Roy

In case the space in any of the preceding boxes is not sufficient.

Continuation of Box No. V --- Reasoned Statement

Citations and explanations.

As per claim 29, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising causing a processor to look up a wavelength designated to the channel being in response to the WSM receiving the first optical signal (col. 7, In 1-10).

As per claim 30, Look discloses method and an apparatus to detect signal failure on a per wavelength basis comprising tuning a light source of the optical transceiver to the wavelength designated to the channel if the optical transceiver is not at the wavelength designated to the channel of the optical transceiver is not at the wavelength designated

As per dam 32, Look discloses method and an appearatus to detect signal slave on a per wavelength basis comprising transmitting an optical signal of a join wavelength basis comprising transmitting an optical signal of a join wavelength branch and post and

As per claim 33, Look discloses method and an apparatus to detect signal failure on a per wavelength basis compnsing wavelengths handled by each of said plurality of WSMs being tracked in configuration information of a corresponding WSM (col. 4, in 25-30).

Claims 15-17 and 22-24 lack an inventive step under PCT Article 33(3) as being obvious over Look in view of US 5,495,356 A to Bartig et al. (hereinafter Bartig').

As per claim 15. Lock discloses method and an appearatus to stehci. sprai bilive on a per wedergith basis. However Lock does not disclose the optical transceiver comprising an encoder to put in enfortification better better aligned to send with the first optical signal to send with the first optical signal to the WSM. Barting discloses optical transceiver with improved range and data communication range and per signal comprising an encoder to put an identification into the first optical signal to send with the first optical signal as the WSM (ord.), it is 5-60, which were the signal to the WSM (ord.), it is

As per calm 16, Look in view of Bartig discloses method and an apparatus to detect signal failure on a per wavelength basis. Further Look discloses the set of one or more processors automatically determining whether the second optical signal corresponds to the first optical signal in response to the identification (cd. 6, in 5-10).

As per claim 17. Look in view of Bartig discloses mightod and an apparatus to detect signal failure on a per wavelength basis. Further Look discloses the WSM including a vanished polical attenuates to very power of the first optical signal dots for WSM and the optical transcerver includes a light detector to measure the second optical signal dots the more whether the power of the second optical signal changes are response to the first optical signal dots for the whether the power of the second optical signal changes are response to the first optical signal code. In 64-51, 10-51.

As per claim 22. Look discloses method and an apparatus to detect signal lature on a per waveningth basis. However Look does not disclose the optical transceiver companing an encoder to our in individualism to the heart signal to send with the first optical signal to send with the first optical signal to the WSM. Barting discloses optical transceiver with improved range and data communication. One of metric optical signal to the wSM. Coll. 1 is 55-00, five of ordinary signal in the air optical signal to the wSM (coll. 1 is 55-00). One of ordinary signal in the air optical transceiver with the method and an apparatus to detect signal fasher on a per wevelength basis of Look and the optical transceiver. The provided in the provided range and data communication is as taught by dating because in order to put an individualism into the order of the optical transceiver.

As per claim 23, Look in view of Bartig discloses method and an apparatus to detect signal failure on a per wavelength basis. Further Look discloses the set of one or more processors automatically determining whether the second optical signal corresponds to the first optical signal receptors be the identification (cd. 6, in 5-10).

As per claim 24. Look in view of Bartig disclasses method and an apparatus to object signal failure on a per wavelength basis. Further Look discloses the WBM chadding a vinable optical attenuation by yourse of the interrupted signal before the first optical signal exists. The WBM and the optical transcriver includes a light describe the measure power failed by the power of the section optical signal exists. The section optical signal exists the section optical signal exhapses in segregate to the first optical signal exhapses in segregate the first optical signal exhapses in segregate the first optical signal exhapses in segregate the power of the secretary optical signal exhapses in segregate the power of the secretary optical signal exhapses in segregate the secretary optical signal exhapses in secretary optical signal exhaps

Claims 1-33 have industrial applicability as defined by P CT Article 33(4) because the subject matter can be made or used in industry

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the fitting of aerondoments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Repulsions and the Administrative Innovations under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, we also the Patriciplicant's Guides, a publication of Windows.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 10

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during international prolimatory examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, as give application what the latter to be published for the purposes of provisional protection or has another except where, as give application what the latter to be published for the purposes of provisional protection or has another examination publication. Furthermore, it should be emphasized off this provisional protection is variable in some States only (see PCT Applican's Goale, Volume 1A, Annexes 81 and 82).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume IA, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When 7 Within 2 months from the date of transmittal of the international search report or 16 months from the princips date, whichever time limit cryptes later. It should be noted, however, that the amondments will be considered as laving been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 4-61).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must he in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must he in English; if the language of the international application is French, the letter must he in French.

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: Claims 1 to 15 replaced by amended claims 1 to 11.
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:

[Where various survay or surrounness are musco; "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added." "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims. It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an anendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International littlig the amenuments (and any statement) with the international Bureau, also lite with the international Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (FCT/IPE/A01).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the considered to se a written opinion of the International Freiminary Extansing Authorny. In a termino is more, we applicant may submit to the International Preliminary Extansing Authority a reply to the written opinion together, and a submit to the International Preliminary Extansing and the written opinion together, which is a submit to the International Preliminary States (International Preliminary States) and the International Preliminary States (International Preliminary International Preliminary Internat

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to,

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide,